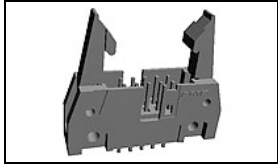![TE connectivity logo]

1-5499922-0 Product Details

1-5499922-0

TE Internal Number: 1-5499922-0

✔ Active

AMP-LATCH Pin and Pinless Headers

🍃 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Header
- Header Type = Universal Ejection Pin Headers
- AMP-LATCH Product Line
- Standard Profile
- 50 Positions

Documentation & Additional Information

Product Drawings:
- HEADER ASSY, UNIVERSAL, AMP-LATCH (PDF, English)

Catalog Pages/Data Sheets:
- 7-1773458-6_AMPLATCH_QRG (PDF, English)
- Ribbon Cable Interconnect Solutions (PDF, English)

Product Specifications:
- AMP-LATCH and IDC Header Connectors, .100 x .100 Inc... (PDF, English)

Application Specifications:
- None Available

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version O)
- 3D Model (IGES, Version O)
- 3D Model (STEP, Version O)

Additional Information:
- Product Line Information

Related Products:
- Tooling
- Mating Products (5)

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Connector Type = Header
- Product Line = AMP-LATCH
- Profile = Standard
- PCB Mounting Orientation = Vertical
- PCB Mount Retention = Without
- Mating Connector Lock = With
- Ejection Latches = With
- Post Size (mm [in]) = 0.64 [.025]
- Shrouded = Yes
- Latch Type = Long
- Mating Connector Lock Type = Latch

Termination Features:
- Termination Post Length (mm [in]) = 2.79 [0.110]
- Solder Tail Contact Plating = Tin

Dimensions:
- PCB Thickness, Recommended (mm [in]) = 1.57 [0.062]

Body Features:
- Header Type = Universal Ejection Pin Headers

Contact Features:
- Contact Plating, Mating Area, Material = Gold (15)
- Contact Shape = Square

Housing Features:
- Centerline, Matrix (mm [in]) = 2.54 x 2.54 [.100 x .100]
- Mating Alignment Type = Center, Dual Polarizing Bar, Military
- Housing Style = 4-Sided
- Mating Alignment = With
- Housing Material = Thermoplastic - GF
- UL Flammability Rating = UL 94V-0
- Housing Color = Black

Configuration Features:
- Number of Positions = 50

Industry Standards:
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Wave solder capable to 260°C, Wave solder capable to 240°C, Wave solder capable to 265°C
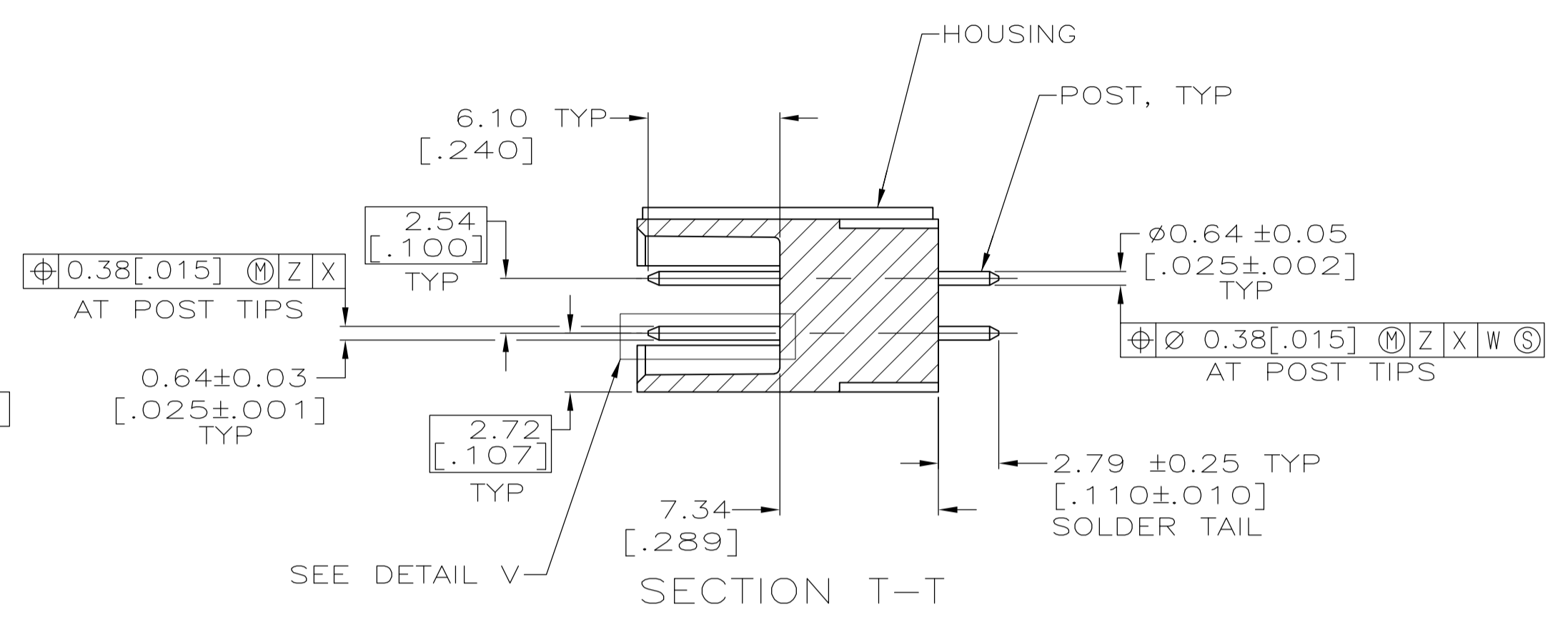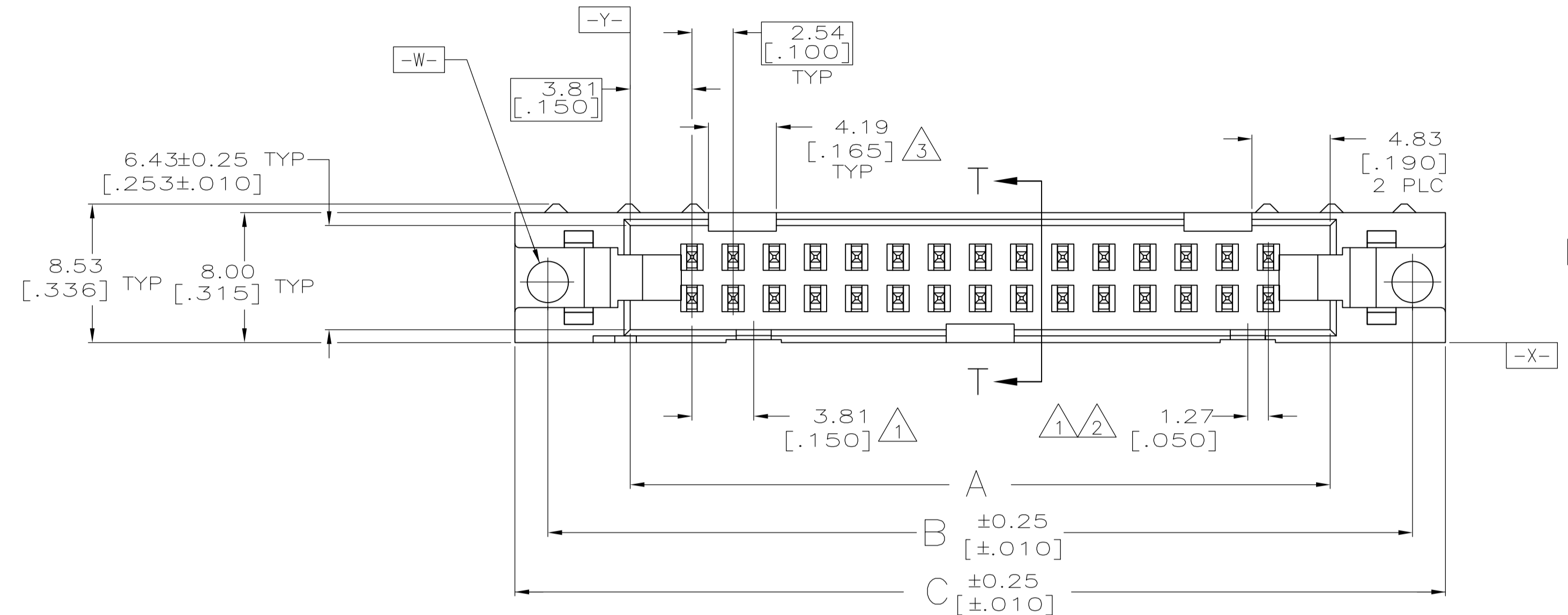- RoHS/ELV Compliance History = Always was RoHS compliant
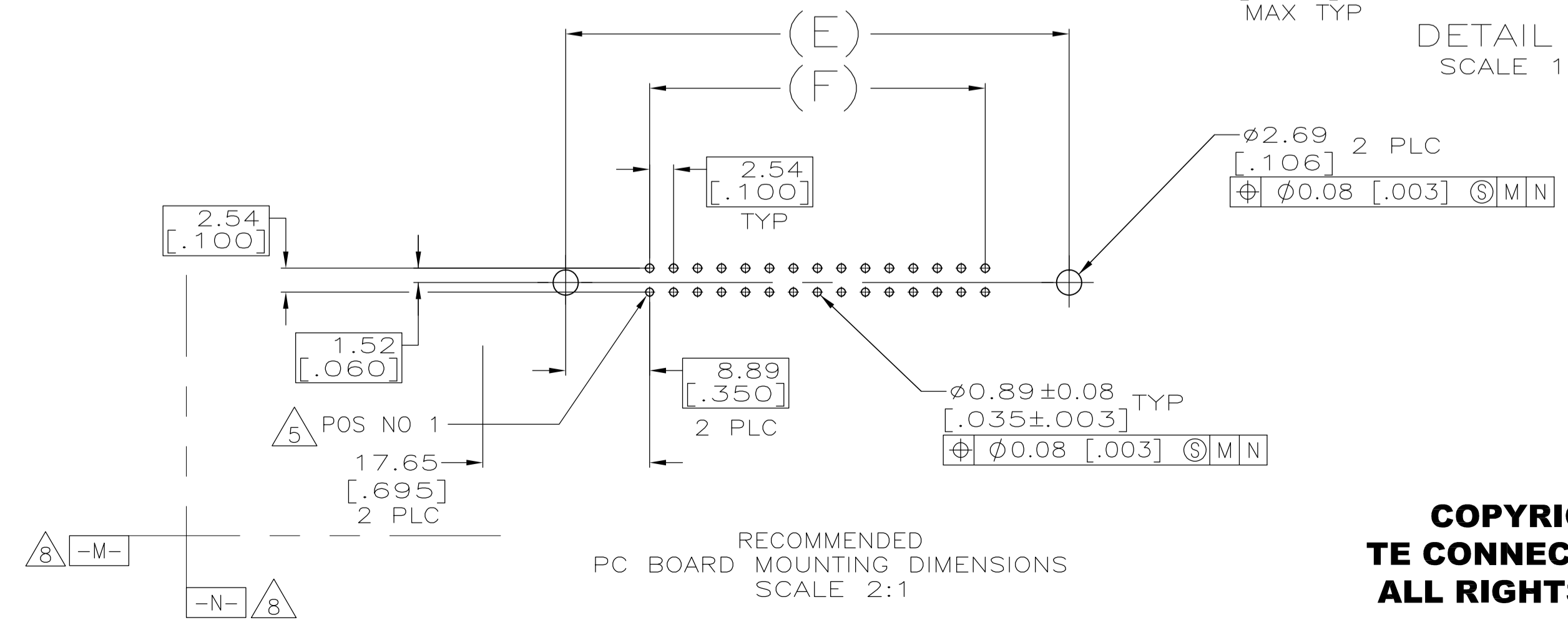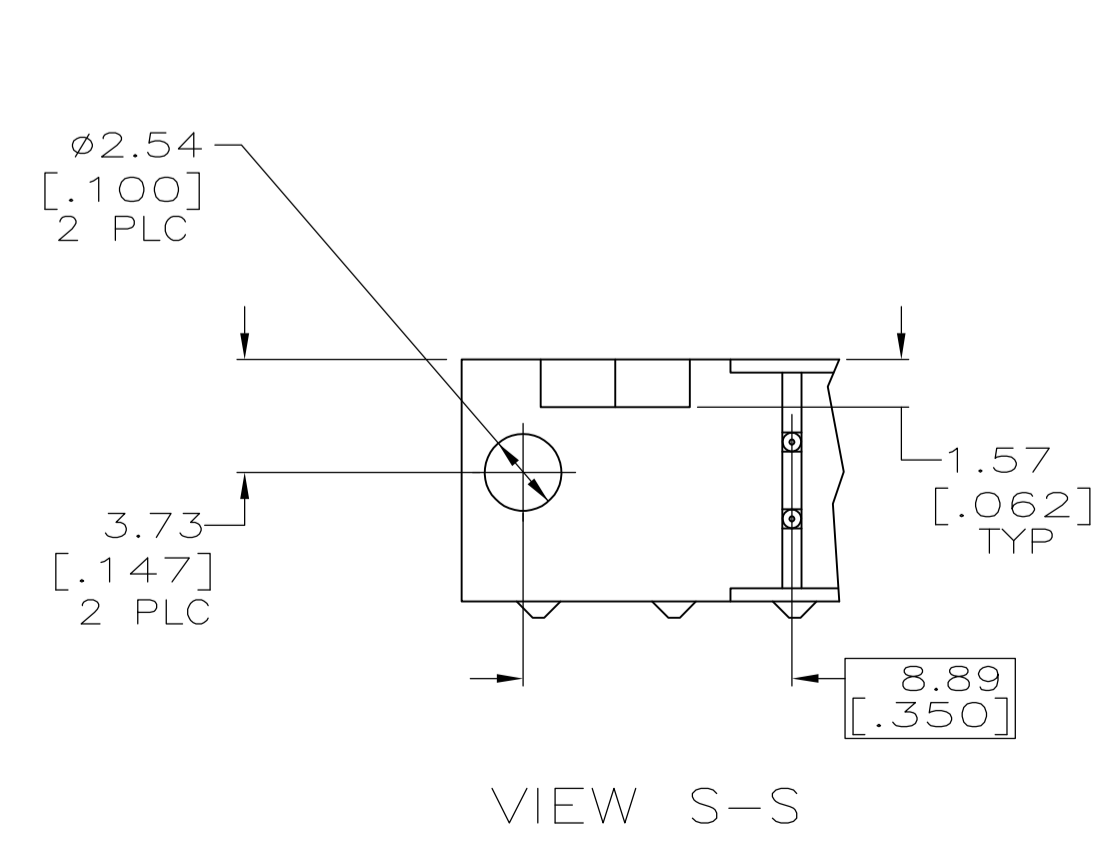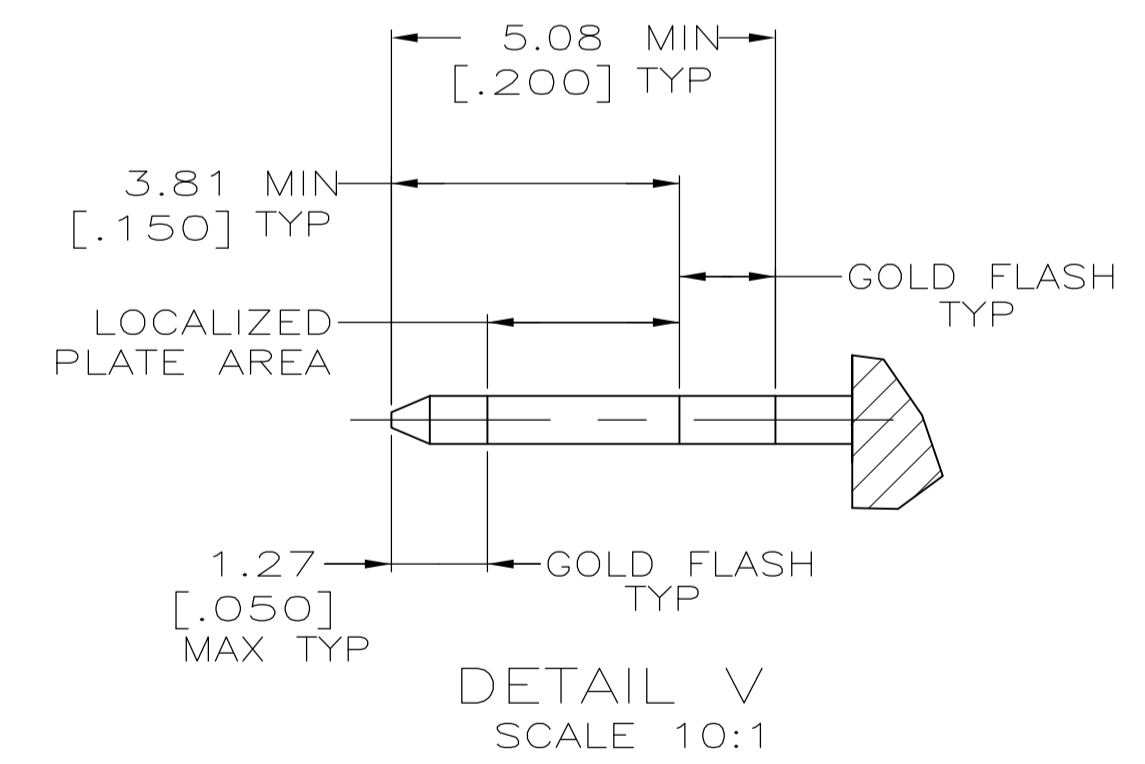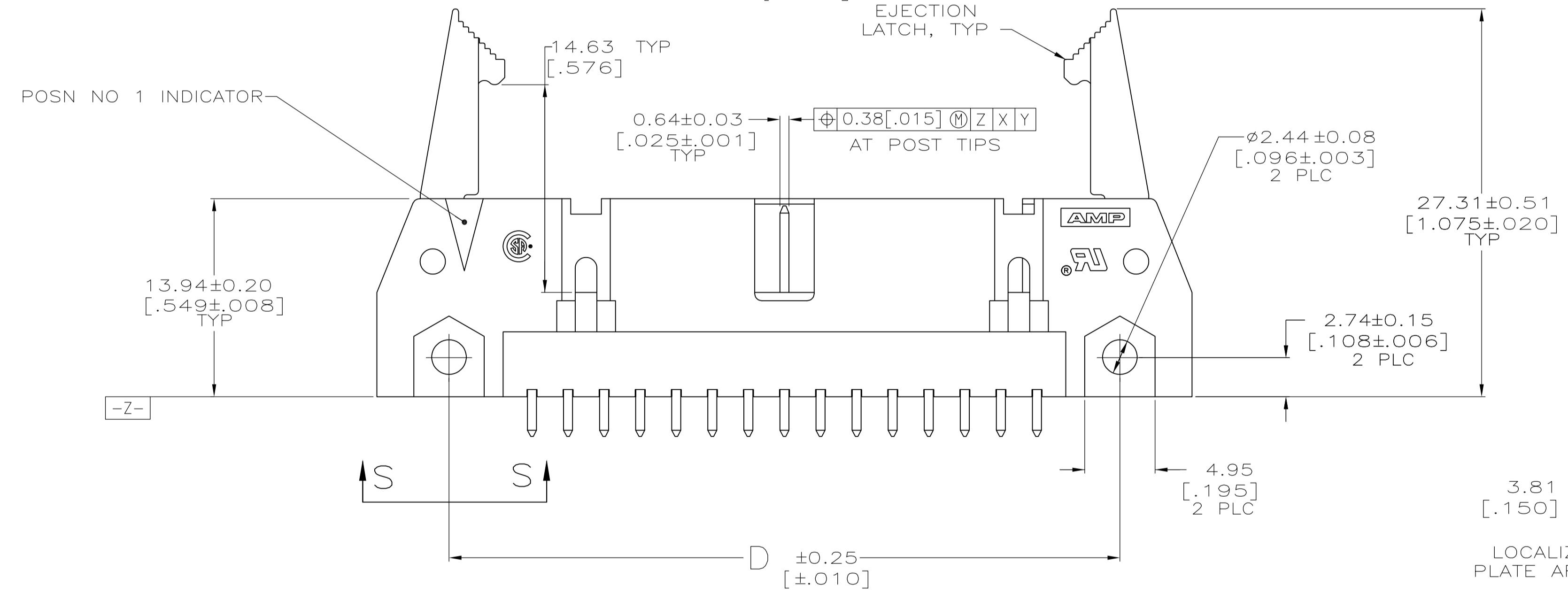
Conditions for Usage:
- Temperature Rating = Standard

Other:
- Brand = AMP

THIS DRAWING IS UNPUBLISHED.
© COPYRIGHT – By –
RELEASED FOR PUBLICATION –.– .–
ALL RIGHTS RESERVED.

EJECTION LATCHES OMITTED IN
THIS VIEW FOR CLARITY

-W-   -Y-
2.54 [.100] TYP
3.81 [.150]
4.19 [.165] /3\ TYP
4.83 [.190] 2 PLC

6.43±0.25 TYP [.253±.010]
8.53 [.336] TYP   8.00 [.315] TYP

-X-

3.81 [.150] /1\
/1\ /2\   1.27 [.050]

A
B ±0.25 [±.010]
C ±0.25 [±.010]

HOUSING
POST, TYP
6.10 TYP [.240]
2.54 [.100] TYP
⌀0.64 ±0.05 [.025±.002] TYP
⊕ 0.38[.015] Ⓜ Z X
AT POST TIPS
⊕ ⌀ 0.38[.015] Ⓜ Z X W Ⓢ
AT POST TIPS

0.64±0.03 [.025±.001] TYP
2.72 [.107] TYP
7.34 [.289]
SEE DETAIL V
2.79 ±0.25 TYP [.110±.010] SOLDER TAIL

SECTION T-T

14.63 TYP [.576]
EJECTION LATCH, TYP
POSN NO 1 INDICATOR
0.64±0.03 [.025±.001] TYP
⊕ 0.38[.015] Ⓜ Z X Y
AT POST TIPS

27.31±0.51 [1.075±.020] TYP

⌀2.44 ±0.08 [.096±.003] 2 PLC

13.94±0.20 [.549±.008] TYP

AMP

2.74±0.15 [.108±.006] 2 PLC

-Z-
S   S

4.95 [.195] 2 PLC

D ±0.25 [±.010]

⌀2.54 [.100] 2 PLC
3.73 [.147] 2 PLC
1.57 [.062] TYP
8.89 [.350]

VIEW S-S

(E)
(F)
2.54 [.100] TYP
2.54 [.100]
⌀2.69 2 PLC [.106]
⊕ ⌀0.08 [.003] Ⓢ M N

1.52 [.060]
8.89 [.350]
/5\ POS NO 1
17.65 [.695] 2 PLC
⌀0.89±0.08 TYP [.035±.003]
⊕ ⌀0.08 [.003] Ⓢ M N

/8\ -M-
-N- /8\

RECOMMENDED
PC BOARD MOUNTING DIMENSIONS
SCALE 2:1

5.08 MIN [.200] TYP
3.81 MIN [.150] TYP
GOLD FLASH TYP
LOCALIZED PLATE AREA
1.27 [.050] GOLD FLASH TYP
1.27 [.050] MAX TYP

DETAIL V
SCALE 10:1

/1\ COORDINATE DIMENSION APPLIES FROM BASIC LOCATION.

/2\ 10 AND 14 POSITION SIZES CONTAIN ONLY ONE SLOT FOR SNAP-IN POLARIZER (MILITARY POLARIZATION) LOCATED AS SHOWN.

/3\ 10 POSITION SIZES CONTAIN ONLY ONE SLOT FOR DUAL POLARIZATION, LOCATED AS SHOWN.

4   RECOMMENDED PRINTED CIRCUIT BOARD THICKNESS IS 1.57 [.062].

/5\ DISTANCE REQUIRED BY EJECTION LATCHES IN THE OPEN POSITION.

/6\ HOUSING & LATCHES: GLASS FILLED NYLON OR POLYESTER, UL94V-0 RATED, BLACK. POSTS: PHOS BRONZE OR BRASS.

/7\ POSTS: GOLD FLASH OVER PALLADIUM-NICKEL PLATE, 0.38µm[.000015] MIN TOTAL ON THE LOCALIZED PLATE AREA, 2.54µm[.000100] MIN TIN PLATE ON THE SOLDER-TAILS, 1.27µm[.000050] MIN NICKEL UNDERPLATE ON THE ENTIRE POST. -OR- 0.38µm[.000015] MIN GOLD PLATE ON THE LOCALIZED PLATE AREA, 2.54µm[.000100] MIN TIN PLATE ON THE SOLDER-TAILS, 1.27µm[.000050] MIN NICKEL UNDERPLATE ON THE ENTIRE POST.

/8\ DATUMS -M- & -N- TO BE ESTABLISHED BY CUSTOMER.

F	E	D	C	B	A	NO OF POSN	PART NUMBER
78.74 [3.100]	96.52 [3.800]	90.42 [3.560]	100.58 [3.960]	96.52 [3.800]	86.36 [3.400]	64	1-5499922-2
73.66 [2.900]	91.44 [3.600]	85.34 [3.360]	95.50 [3.760]	91.44 [3.600]	81.28 [3.200]	60	1-5499922-1
60.96 [2.400]	78.74 [3.100]	72.64 [2.860]	82.80 [3.260]	78.74 [3.100]	68.58 [2.700]	50	1-5499922-0
48.26 [1.900]	66.04 [2.600]	59.94 [2.360]	70.10 [2.760]	66.04 [2.600]	55.88 [2.200]	40	5499922-9
40.64 [1.600]	58.42 [2.300]	52.32 [2.060]	62.48 [2.460]	58.42 [2.300]	48.26 [1.900]	34	5499922-8
35.56 [1.400]	53.34 [2.100]	47.24 [1.860]	57.40 [2.260]	53.34 [2.100]	43.18 [1.700]	30	5499922-7
30.48 [1.200]	48.26 [1.900]	42.16 [1.660]	52.32 [2.060]	48.26 [1.900]	38.10 [1.500]	26	5499922-6
27.94 [1.100]	45.72 [1.800]	39.62 [1.560]	49.78 [1.960]	45.72 [1.800]	35.56 [1.400]	24	5499922-5
22.86 [.900]	40.64 [1.600]	34.54 [1.360]	44.70 [1.760]	40.64 [1.600]	30.48 [1.200]	20	5499922-4
17.78 [.700]	35.56 [1.400]	29.46 [1.160]	39.62 [1.560]	35.56 [1.400]	25.40 [1.000]	16	5499922-3
15.24 [.600]	33.02 [1.300]	26.92 [1.060]	37.08 [1.460]	33.02 [1.300]	22.86 [.900]	14	5499922-2
10.16 [.400]	27.94 [1.100]	21.84 [.860]	32.00 [1.260]	27.94 [1.100]	17.78 [.700]	10	5499922-1

THIS DRAWING IS A CONTROLLED DOCUMENT.
DWN L. VARELA - DOCK5 01-11-05
CHK S. BOLASH
APVD M. WALMSLEY 01-11-05
DIMENSIONS: MM [INCHES]
TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ± –
1 PLC ± –
2 PLC ± 0.13[.005]
3 PLC ± –
4 PLC ± –
ANGLES ± ± –
PRODUCT SPEC 108-40018
APPLICATION SPEC –

ETE TE Connectivity

NAME
HEADER ASSY, UNIVERSAL, AMP-LATCH
–

MATERIAL /6\   FINISH /7\
WEIGHT –
SIZE A1   CAGE CODE 00779   DRAWING NO C-5499922   RESTRICTED TO –
CUSTOMER DRAWING
SCALE 4:1   SHEET 1 OF 1   REV B1

4805 (3/11)